

Press release

Inertia-ready: RWE's innovative battery energy storage system in Moerdijk starts commercial operation

- First battery in RWE's portfolio capable of providing inertia services to the grid
- The project is part of the system integration solutions within the OranjeWind offshore project, which aim to match intermittent wind power generation with flexible demand

Geertruidenberg/Essen, 16 June 2025

RWE's first inertia-ready battery energy storage system (BESS) has started commercial operation on the site of the company's power plant in Moerdijk, the Netherlands. It is the first of its kind in operation in the Central European grid.

The BESS has an installed capacity of 7.5-megawatts (MW) and a storage capacity of 11 megawatt hours (MWh). Highly responsive control technology and inverters with grid-forming functionality enable the system to supply or absorb power within milliseconds, helping to stabilise the power grid. This service is called inertia.

The more electricity comes from renewable, fluctuating energy sources, the more difficult it becomes to keep the power grid stable. Inertia plays a crucial role here as it is the fastest available balancing energy in the power grid. Until now, inertia has mainly been provided by the rotating masses of turbines, e.g. in coal-fired power plants.

Nikolaus Valerius, CEO RWE Generation SE, stated: "Our newest plant in Moerdijk shows that ultra-fast battery energy storage systems can deliver the grid-serving inertia once solely provided by conventional power plants. With the phase-out of fossil fuel-fired large power plants, more and more such systems are needed to stabilise the grid."

The Moerdijk BESS was developed and constructed as part of <u>OranjeWind</u>, a joint offshore wind project off the Dutch coast being developed by RWE and its partner TotalEnergies. In using advanced lithium-iron phosphate (LFP) technology, combined with super-fast inverters, the plant is a blueprint for RWE's plans to significantly expand its BESS capacities worldwide.

Parallel to commercial operation, the plant in Moerdijk is undergoing a two-year pilot phase with the aim of developing standards for future BESS capable of providing inertia. RWE will use the experience gained from this together with transmission system operator TenneT to develop the

RWE Generation SE | Corporate Communications & Public Affairs | RWE Platz 3 | 45141 Essen | Germany T +49 201 5179-5008 | communications@rwe.com | www.rwe.com/press



technical requirements and grid compliance procedures for the grid-forming properties of the plant.

Battery storage at RWE

As a driver of the energy transition, RWE develops, builds and operates battery storage systems in the US, Europe and Australia. The company currently operates battery storage systems with a total capacity of around 1,200 megawatts (MW).

Olaf Winter
Press Office
RWE Generation SE
T: +49-201-5179 8455
E: <u>olaf.winter@rwe.com</u>

RWE

RWE is leading the way to a modern energy world. With its investment and growth strategy, RWE is contributing significantly to the success of the energy transition and the decarbonisation of the energy system. Around 20,000 employees work for the company in almost 30 countries worldwide. RWE is one of the leading companies in the field of renewable energy. RWE is investing billions of euros in expanding its generation portfolio, in particular in offshore and onshore wind, solar energy and batteries. It is perfectly complemented by its global energy trading business. Thanks to its integrated portfolio of renewables, battery storage and flexible generation, as well as its broad project pipeline of possible new builds, RWE is well positioned to address the growing global demand for electricity, particularly driving by further electrification and artificial intelligence. RWE is decarbonising its business in line with the 1.5-degree reduction pathway and will phase out coal by 2030. RWE will be net zero by 2040. Fully in line with the company's purpose - Our energy for a sustainable life.

Data protection

The personal data processed in connection with the press releases will be processed in compliance with the statutory data protection requirements. If you are no longer interested in receiving the press release, please let us know at <u>datenschutz-kommunikation@rwe.com</u>. Your data will then be deleted and you will not receive any further press releases from us. If you have any questions about our data protection provisions or the exercise of your rights under the GDPR, please contact <u>datenschutz@rwe.com</u>